



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No: 10/618,077 Confirmation No: Not Known  
 Date Filed: July 11, 2003  
 Application Title: Polymerase Extension at 3' Terminus Of PNA-DNA Chimera  
 Applicants: Egholm et al.  
 Group Art Unit: Not Known  
 Examiner: Not Known  
 Certified Mail No: 7003 0500 0000 1738 0813

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Brian D. Gildea  
Reg. No. 39,995

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**INFORMATION DISCLOSURE STATEMENT**

Commissioner For Patents  
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In accordance with 37 C.F.R. § 1.97, Applicant(s) hereby make of record the following information and publications. Copies of PTO Form 1449 and each publication listed thereon accompany this statement, either in the entirety or in the relevant parts. The documents identified herein are NOT admitted as being prior art.

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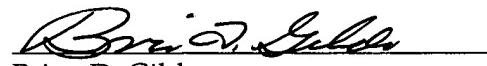
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Respectfully submitted,

Date: Oct 15, 2003

  
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PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.: 4468C2  
 APPLICANT: Michael Egholm  
 SERIAL NO.: 10/618,077  
 FILING DATE: 7/11/03  
 GROUP:

## US PATENT DOCUMENTS

EXAM . INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
01	5,332,666	July 26, 1994	Prober et al.	435	91.5	Oct. 22, 1991
02	6,063,571	May 16, 2000	Uhlmann et al.	435	6	Sept. 11, 1997
21	6,265,559	July 24, 2001	Gildea et al.	536	23.1	May 12, 2000

## FOREIGN PATENT DOCUMENTS

EXAM . INIT.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
03	WO93/25563	Dec. 23, 1993					
04	WO95/08556	Mar. 30, 1995					
05	EP0672677	Sep. 20, 1995					
06	WO97/31256	Aug. 28, 1997					
07	WO97/49769	Dec. 31, 1997					
08	EP0829542	Mar. 18, 1998					
09	WO99/34014	July 8, 1999					

10	Stratagene, Catalog, Gene Characterization Kits, page 39 (1988)
11	Reaching, L. et al., "Polyamide Nucleic Acid Targeted to the Primer Binding Site of the HIV-1 RNA Genome Blocks in Vitro HIV-1 Reverse Transcription," <b>Biochemistry</b> 37, 900-910 (1998)
12	Lutz, M.J., et al., Recognition of Uncharged Polyamide-Linked Nucleic Acid Analogs by DNA Polymerases and Reverse Transcriptions," <b>Journal of American Society</b> 119, 3177-3178
13	Hari S. Misra et al., "Polyamide Nucleic Acid-DNA Chimera Lacking the Phosphate Backbone are Novel Primers for Polymerase Reaction Catalyzed by DNA Polymerases," <b>Biochemistry</b> 37, 1917-1925 (1998)
14	Pastin, T. et al, "Minisequencing: A Specific Tool For DNA Analysis And Diagnostics On Oligonucleotide Arrays." <b>Genome Research</b> , 7, 606-614 (1997)
15	Ross P. et al., "Discrimination of Single-Nucleotide Polymorphisms in Human DNA Using Peptide Nucleic Acid Probes Detected by MALDI-TOF Mass Spectrometry," <b>Analytical Chemistry</b> 69 (20), 4197-4202 (1997)
16	Uhlmann, E. et al., "Peptide Nucleic Acids (PNA) and PNA-DNA Chimeras: From High Binding Affinity Towards Biological Function," <b>Biol. Chemistry</b> 379, 1045-1052 (1998)
17	Uhlmann, E. et al., "Synthesis and Properties of PNA/DNA Chimeras," <b>Angew. Chemical Int. Ed. Engl.</b> 35 (22) 2632-2635
18	Alexander C. Van Der Laan, et al., "A Convenient Automated Solid-Phase Synthesis of PNA-(5')-DNA-(3') PNA Chimera," <b>Tetrahedron Letters</b> 38 (13), 2249-2252 (1997)
19	Ravi Vinatak et al., "Automated Chemical Synthesis of PNA and PNA-DNA Chimera on a Nucleic Acid Synthesizer," <b>Nucleosides &amp; Nucleotides</b> 16 (7-9) 1653-1656 (1997)
20	Yershov, G.. et al, "DNA Analysis And Diagnostic On Oligonucleotide Microchips." <b>Proc. Natl. Acad. Sci. USA</b> , 93, 4913-4918 (1996)

EXAMINER: \_\_\_\_\_ DATE CONSIDERED: \_\_\_\_\_